

Serial No. 09/707,816
Docket No. NEC N00204
Amendment C under Rule 116

LISTING OF CLAIMS

Claim 1 (currently amended): A driving method for a color liquid crystal display comprising:

~~a step of applying gamma compensations making suitable to a red transmittance characteristic, a green transmittance characteristic and a blue transmittance characteristic for an applied voltage of said color liquid crystal display to a red video signal, a green video signal and a blue video signal, by supplying respectively independently generated reference voltages to each of a plurality of gamma compensating circuits, in order to obtain a compensated red video signal, a compensated green video signal and a compensated blue video signal; and~~
supplying, to a separate gamma compensating circuit for each a red video signal, a green video signal and a blue video signal, an independently generated reference voltage, said reference voltage generated based upon a red transmittance characteristic, a green transmittance characteristic and a blue transmittance characteristic;

applying gamma compensation using said gamma compensating circuit in order to obtain a compensated red video signal, a compensated green video signal and a compensated blue video signal; and

~~a step of driving said color liquid crystal display based on said compensated red video signal, said compensated green video signal and said compensated blue video signal.~~

Claim 2 (withdrawn)

Claim 3 (original): The driving method for the color liquid crystal display according to Claim 1, wherein voltages or data used for said gamma compensations are independently set

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in an area from a minimum transmittance to a maximum transmittance of each of said red transmittance characteristic, said green transmittance characteristic and said blue transmittance characteristic for said applied voltage for said color liquid crystal display.

Claim 4 (original): The driving method for the color liquid crystal display according to Claim 3, wherein said voltages or said data are independently changeable.

Claim 5 (currently amended): A driving method for a color liquid crystal display comprising:

~~a step of applying gamma compensations, each of said gamma compensations including a first gamma compensation of voluntarily giving a luminance characteristic of a reproduced image to an input image luminance and a second gamma compensation of making suitable to a red transmittance characteristic, a green transmittance characteristic and a blue transmittance characteristic for an applied voltage of said color liquid crystal display to a red video signal, a green video signal and a blue video signal by supplying respectively independently generated reference voltages to each of a plurality of gamma compensating circuits, in order to obtain a compensated red video signal, a compensated green video signal and a compensated blue video signal; and~~

applying gamma compensation to a red signal, a green signal and a blue signal using separate gamma compensating circuits for each of said signals, said gamma compensation including a first gamma compensation of voluntarily giving a luminance characteristic of a reproduced image to an input image luminescence and a second gamma compensation of said signals conforming to a red transmittance characteristic, a green transmittance characteristic

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and a blue transmittance characteristic of a red video signal, a green video signal and a blue video signal, respectively; and

a step of driving said color liquid crystal display based on said compensated red video signal, said compensated green video signal and said compensated blue video signal,

wherein said second gamma compensation is performed by supplying reference voltages to each of said plurality of gamma compensating circuits, said reference voltage specific to said red transmittance characteristic, said green transmittance characteristic and said blue transmittance characteristic, in order to obtain a compensated red video signal, a compensated green video signal and a compensated blue video signal.

Claim 6 (withdrawn)

Claim 7 (original): The driving method for the color liquid crystal display according to Claim 5, wherein voltages or data used for said gamma compensations are independently set in an area from a minimum transmittance to a maximum transmittance of each of said red transmittance characteristic, said green transmittance characteristic and said blue transmittance characteristic for said applied voltage for said color liquid crystal display.

Claim 8 (original): The driving method for the color liquid crystal display according to Claim 7, wherein said voltages or said data are independently changeable.

Claim 9 (previously amended): A driving circuit for a color liquid crystal display comprising:

a first gamma compensating circuit for applying a gamma compensation only to a red video signal so as to be suitable only for a red transmittance characteristic for an applied

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voltage in said color liquid crystal display and for outputting only a compensated red video signal;

a second gamma compensating circuit for applying a gamma compensation only to a green video signal so as to be suitable only for a green transmittance characteristic for said applied voltage in said color liquid crystal display and for outputting only a compensated green video signal;

a third gamma compensating circuit for applying a gamma compensation only to a blue video signal so as to be suitable only for a blue transmittance characteristic for said applied voltage of said color liquid crystal display and for outputting only a compensated blue video signal;

a reference voltage generating circuit for supplying respectively independently generated reference voltages to said first gamma compensating circuit, said second gamma compensating circuit and said third gamma compensating circuit; and

a data electrode driving circuit for driving corresponding electrodes of said color liquid crystal display based on said compensated red video signal, said compensated green video signal and said compensated blue video signal.

Claim 10 (withdrawn):

Claim 11 (original): The driving circuit for the color liquid crystal display according to Claim 9, wherein said reference voltages are independently set for each area from a minimum transmittance to a maximum transmittance in each of said red transmittance

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characteristic, said green transmittance characteristic and said blue transmittance characteristic for said applied voltage in said color liquid crystal display.

Claim 12 (original): The driving circuit for the color liquid crystal display according to Claim 11, wherein said reference voltages are independently changeable.

Claim 13 (previously amended): A driving circuit for a color liquid crystal display comprising:

a first gamma compensating circuit for applying a gamma compensation only to a red video signal, said gamma compensation including a first gamma compensation of voluntarily giving a luminance characteristic of a reproduced image for an input image luminance and a second gamma compensation of compensating said red video signal so as to be suitable only for a red transmittance characteristic for an applied voltage in said color liquid crystal display and for outputting only a compensated red video signal;

a second gamma compensating circuit for applying a gamma compensation only to a green video signal, said gamma compensation including a first gamma compensation of voluntarily giving a luminance characteristic of a reproduced image for an input image luminance and a second gamma compensation of compensating said green video signal so as to be suitable only for a green transmittance characteristic for an applied voltage of said color liquid crystal display and for outputting only a compensated green video signal;

a third gamma compensating circuit for applying a gamma compensation only to a blue video signal, said gamma compensation including a first gamma compensation of voluntarily giving a luminance characteristic of a reproduced image for an input image luminance and a

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second gamma compensation of compensating said blue video signal so as to be suitable only for a blue transmittance characteristic for an applied voltage of said color liquid crystal display and for outputting only a compensated blue video signal;

a reference voltage generating circuit for supplying respectively independently generated reference voltages to said first gamma compensating circuit, said second gamma compensating circuit and said third gamma compensating circuit; and

a data electrode driving circuit for driving corresponding electrodes in said color liquid crystal display based on said compensated red video signal, said compensated green video signal and said compensated blue video signal.

Claim 14 (withdrawn)

Claim 15 (original): The driving circuit for the color liquid crystal display according to Claim 13, wherein said reference voltages are independently set for each area from a minimum transmittance to a maximum transmittance in each of said red transmittance characteristic, said green transmittance characteristic and said blue transmittance characteristic for said applied voltage in said color liquid crystal display.

Claim 16 (original): The driving circuit for the color liquid crystal display according to Claim 15, wherein said reference voltages are independently changeable.

Claims 17-32 (withdrawn)

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